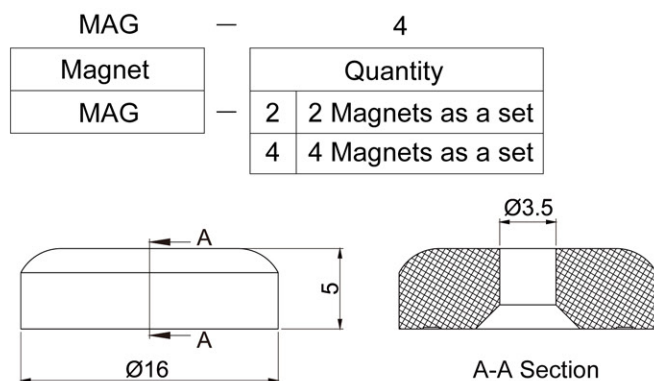


Magnet Outline Diagram

Optional



Magnet assembly diagram



康信創意科技有限公司
Creative Maintenance Technology Co., Ltd.

KS-M0 Series

Intelligent Vibration & Temperature Sensor

Ocelot For Plot

Optional



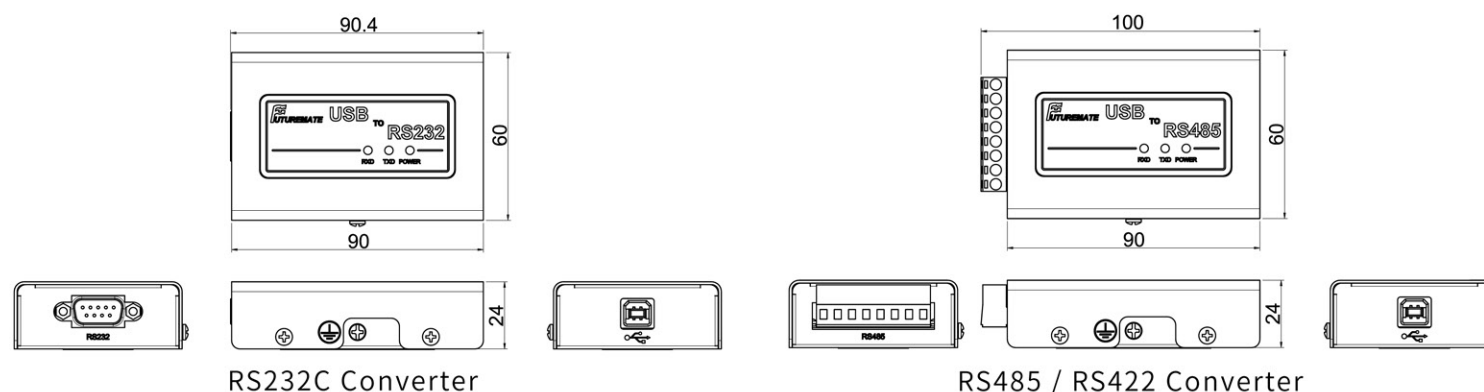
The software will efficiently detect the abnormal vibration event for the machine

Summary

KS-M0 Series is a digital intelligent sensor with 3 axis MEMS accelerometer and temperature sensor. The latest MEMS technology and high-efficiency edge computing function are used in this sensor to provide excellent sensitivity and reliability. This sensor majorly applied for monitoring and detecting the abnormal condition to prevent unpredictable event , accident and downtime losses.

USB to RS232C / RS485 / RS422 Converter

Optional



Features

- High accuracy , stability and low power consumption
- Output formats : Feature , Raw data , FFT and ISO10816
- 3 communication protocol : RS232 , RS422 , RS485RTU
- Equipped with LED status light
- Assort with OCELOT series software for vibration monitor and analysis
- Industrial-grade hardware design , providing excellent stability and extremely low power consumption
- Shell is made of weather & corrosion-resistant SUS316 stainless steel
- Easy to install , effectivity reduce resonance effect by Epoxy Potting compound method
- Industrial IP67-rated

Applications

- Machine Monitoring : Machine tools , Production line , Motor , Pump
- Public Transportation System : Metro , High speed rail , Train
- Public Facilities Monitoring : Building structural , Bridge , Elevator , Escalator
- Power Generation System : Wind power , Solar power
- Environmental Safety Monitoring : Flood , Seismic monitoring , Slope and rocks monitoring



13F., No. 953, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23544, Taiwan
TEL : +886-2-2659-8339
FAX : +886-2-2659-8389



www.kscm-tech.com Facebook



Ordering Information

KS	M04		I3		6		08	
Series	Series Number & Communication Protocol		Model & Axis		Bandwidth		Measuring Range	
KS	M01	RS-232C	I3	3 Axes	1	1kHz	02	±2g
	M02	RS-485 Modbus RTU					04	±4g
	M03	RS-422					08	±8g
					10		±10g	
					20		±20g	
					40		±40g	
M04	RS-232C	I3	3 Axes	6	6kHz	02	±2g	
M05	RS-485 Modbus RTU					04	±4g	
M06	RS-422					08	±8g	
						16	±16g	
M07	RS-232C	I1	1 Axis	A	10kHz	50	±50g	
M08	RS-485 Modbus RTU					100	±100g	
M09	RS-422							

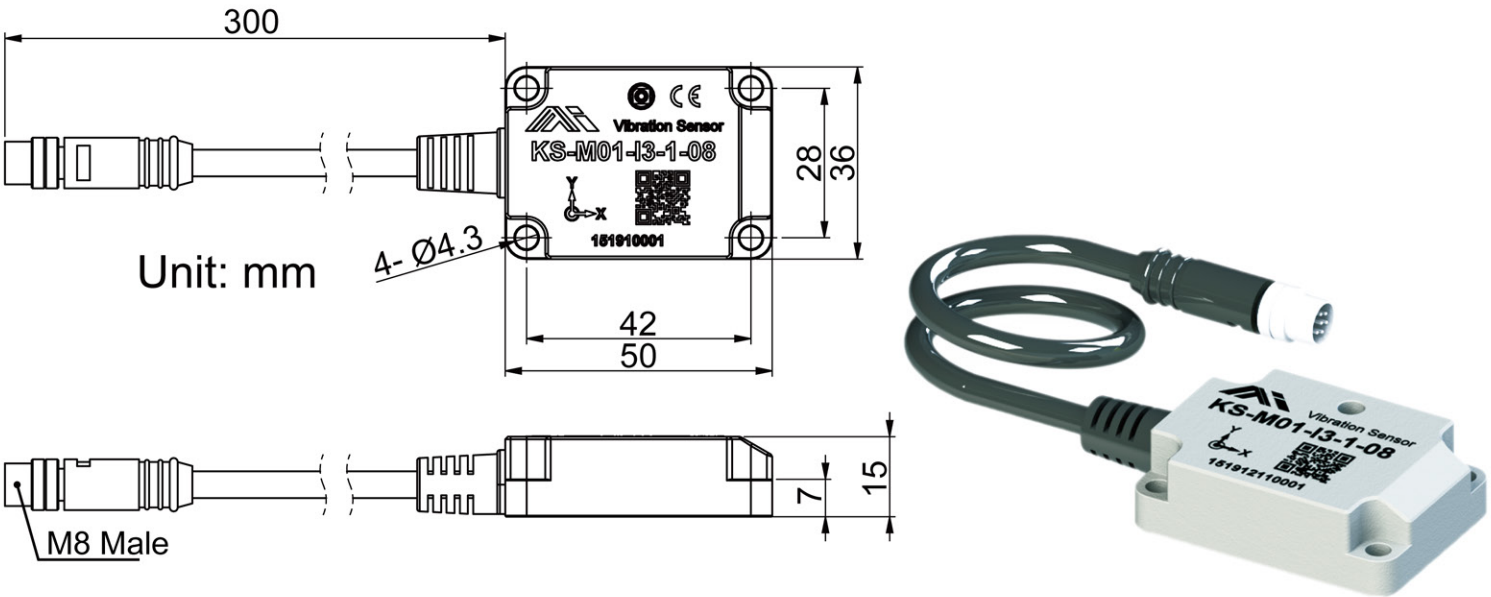
※1 The maximum communication distance of M01/M04/M07 is less than 10 meters

Specification

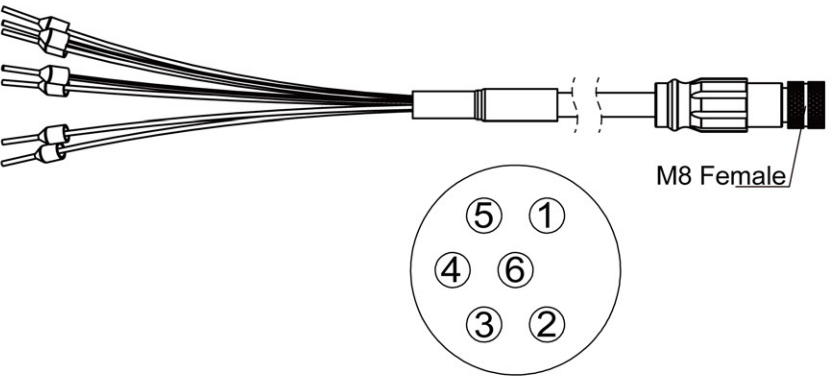
KS-M
Vibration
Sensor

Measurement Range	M01~03 : ±2g/±4g/±8g/±10g/±20g/±40g M04~06 : ±2g/±4g/±8g/±16g M07~09 : ±50g/±100g
Sensitivity	M01~03 : 3.9@±2g , 7.8@±4g , 15.6@±8g (μg/LSB) 19.5K@±10g , 39@±20g , 78@±40g (μg/LSB) M04~06 : 0.061@±2g , 0.122@±4g , 0.244@±8g , 0.488@±16g (mg/LSB) M07~09 : 40@±50g , 20@±100g (mV/g)
Bandwidth	M01~03 : DC to 1kHz M04~06 : DC to 6kHz , Simulation to 10kHz M07~09 : DC to 10kHz
Measurement Temperature	-10 to +105 °C
Consumption Current @ Operating Voltage	M01~06 : DC 5 to 30V / 10mA @ 24VDC Below M07~09 : DC 10 to 30V / 10mA @ 24VDC Below
Communication Protocol & Baud Rate	RS-232C @921600bps RS-422 @921600bps RS-485 Modbus RTU @115200bps
Data Format	1. Feature 2. Raw Data 3. FFT 4. ISO10816
Data Feature	Mean , Standard Deviation , RMS , Crest Factor , Skewness , Kurtosis , Peak to Peak , Form Factor , Min , Max and Contact Temperature
Installation Method	M4 Screw Fixing / Super Strong Magnets
Maximum Impact	10,000g
Dimension W x D x H	50mm x 36mm x 15mm , Without Magnets & Cable
Shell Material	SUS316 Stainless Steel
Weight	105g ±5%
Working Temperature	-10 ~ +85 °C
Storage Temperature	-20 ~ +100 °C
Working Humidity	0 ~ 95%
Water & Dust Resistance	IP67

Outline Dimension



Definition of Pin



No.	Colour	Fuction		
		RS232C	RS422	RS485
1	Green / Black	TxD	Tx+(Y)	A
2	Yellow / Black	RxD	Rx+(A)	NC
3	Green	NC	Tx-(Z)	B
4	Yellow	NC	Rx-(B)	NC
5	Pink / Black	0V		
6	Pink	+5 ~ 30V		
7	Isolation Net			

Extension Cable Outline Diagram

Optional

